

2024-5276  
2024-11-08

GROUP	4	INSECTICIDE
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**FOR EMERGENCY USE ONLY**  
**For sale and use in Nova Scotia and Ontario from November 8, 2024**  
**to November 7, 2025.**

**STARKLE 20 SG**

Water Soluble Granules

**For application as a basal bark spray for control of Hemlock Woolly Adelgid on hemlock. For Use in Forests, Woodlands, and Other Treed Areas.**

RESTRICTED

KEEP OUT OF REACH OF CHILDREN

READ THE LABEL BEFORE USING

REGISTRATION NO. 34653 PEST CONTROL PRODUCTS ACT

CAUTION – EYE AND SKIN IRRITANT

ACTIVE INGREDIENT: Dinotefuran ..... 20.00%  
Net Contents: 5.7 Kg

Warning, contains the allergen milk

IN CASE OF EMERGENCY INVOLVING A POISONING OR MAJOR SPILL CALL +1 202 464 2554

Canadian Agent:  
Belchim Crop Protection Canada Inc.  
104 Cooper Drive, Unit 3  
Guelph ON N1C 0A4  
  
1-866-613-3336

Manufactured for:

<b>MITSUI CHEMICALS CROP &amp; LIFE SOLUTIONS, INC.</b>	
Nihonbashi Dia Building, 1-19-1, Nihonbashi Chuo-ku, Tokyo 103-0027, JAPAN.	P. O. Box 5126 Valdosta, GA 31603-5126 USA

**NOTICE TO USER:**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

**NATURE OF RESTRICTION:**

This product is only to be sold to and used by individuals holding an appropriate pesticide applicator certificate or license recognized by the provincial pesticide regulatory agency where the pesticide application is to occur. This restriction applies to all basal trunk spray handlers. In Nova Scotia: only by registered pesticide applicator with Class III (A) Forestry or Class III (D) Landscape license. In Ontario: only by registered pesticide applicator with Exterminator licence – Land extermination – Forestry or Exterminator licence – Land extermination – Landscape.

**DIRECTIONS FOR USE**

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT apply to trees that are within 7 m of water courses.

**FOR USE AS A BASAL BARK SPRAY FOR CONTROL OF HEMLOCK WOOLLY ADELGID**

For trees already showing signs of decline, a tank mix of this product with Xytect 2F is recommended. This product may be tank mixed with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Mitsui Chemicals Crop & Life Solutions, Inc. at (416) 506-9900 for information before applying any tank mix that is not specifically recommended on this label.

**MIXING INSTRUCTIONS:**

Add ½ of the required amount of water to the mix tank. With the agitator running, add the desired amount of STARKLE 20 SG to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after STARKLE 20 SG has completely dispersed into the mix water.

**APPLICATION PROCEDURES AND SPRAY EQUIPMENT**

Basal trunk spray using backpack sprayer.

Apply with low pressure sprayer operated at maximum 20 PSI to avoid splash-back and drift.

CROP	PEST	PRODUCT RATE PER APPLICATION	SPECIAL INSTRUCTIONS
Hemlock	Hemlock Woolly Adelgid	<p>Mix 66.7 g of product with sufficient water to make 1 litre of spray solution (13.3 g of active ingredient per litre of solution).</p> <p>When applied just to the point of runoff, 3.78 L of spray solution should treat approximately 1.6 to 2 m of cumulative trunk diameter (calibrated flow rate should deliver 44 – 60 mL of spray</p>	<p>Spray solution on bark over entire circumference of tree trunk from 10 to 135 centimetres (4-54 inches) above the soil surface. Wet bark with spray solution to the point of saturation and before run off.</p> <p>During application do not allow spray solution to run off trunk on to soil surface.</p> <p>Do not apply directly to soil .</p> <p>Apply when hemlocks are actively growing and transporting</p>

		solution per 2.5 cm of trunk diameter for suitable coverage) or 5 L of spray solution should treat approximately 2.1 to 2.8 m	water in xylem (March-November). In actively growing hemlock, control may be evident within 2 weeks after application.
<p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>- Maximum one application per year</li> <li>- Maximum 3025 grams Starkle 20SG per hectare per year (605 g of active ingredient per ha per year)</li> </ul>			

**PRECAUTIONS****KEEP OUT OF REACH OF CHILDREN**

May irritate the eyes and skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Keep children or pets off treated area until spray is dry. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

**DO NOT** enter or allow worker entry into treated areas until sprays have dried.

**DO NOT** use product in residential areas unless a restricted entry interval of 96 hours can be enforced (signs must be posted and area must be marked off). Residential areas are defined as any use site where bystanders or the public, including children, could be exposed during or after application. This includes areas in and around homes, schools, public buildings or any other areas where they could be exposed.

#### FIRST AID

**IF SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control centre or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

#### TOXICOLOGICAL INFORMATION:

No specific antidote is available. Treat the patient symptomatically.

#### ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms.

Toxic to bees. Hemlock trees are not attractive to pollinators. However, bees may be exposed through direct spray, spray drift, and residues on/in leaves, pollen and nectar in flowering crops and weeds. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds or plants.

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site.

**STORAGE:** Store this product away from food or feed. Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

**DISPOSAL:** DO NOT reuse this container for any purpose. This is a recyclable container and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site: 1. Triple- or pressure-rinse the empty container. Add the rinsing's to the spray mixture in the tank. 2. Make the empty, rinsed container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.